UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

# NOTICE OF ALLOWANCE AND FEE(S) DUE

1444

7590

01/09/2009

BROWDY AND NEIMARK, P.L.L.C. 624 NINTH STREET, NW SUITE 300 WASHINGTON, DC 20001-5303

EXAMINER

MAUST, TIMOTHY LEWIS

ART UNIT PAPER NUMBER

3751

DATE MAILED: 01/09/2009

APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/541.770	07/08/2005	Luc Barre	BARRE1	3901

TITLE OF INVENTION: METHOD AND DEVICE FOR MANIPULATING HEAVY GAS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	04/09/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

ppropriate. All further adicated unless correcteraintenance fee notificate	correspondence includin ed below or directed oth	g the Patent, advance of erwise in Block 1, by (a	rders and notification of a) specifying a new cor	maintenance fees verspondence address	vill be and/or	mailed to the current (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
	ENCE ADDRESS (Note: Use Blo	ock 1 for any change of address)	F	ee(s) Transmittal Th	is certif	icate cannot be used for	r domestic mailings of the or any other accompanying nt or formal drawing, must
624 NINTH STE SUITE 300				Cei	tificate	e of Mailing or Transı	
WASHINGTON	I, DC 20001-5303						(Depositor's name)
			_				(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO	)R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/541,770 ITLE OF INVENTION	07/08/2005 : METHOD AND DEVI	CE FOR MANIPULATI	Luc Barre NG HEAVY GAS			BARRE1	3901
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DU	E PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0		\$1055	04/09/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS	7			
MAUST, TIMO	OTHY LEWIS	3751	141-066000	_			
Change of correspondence address or indication of "Fee Address" (37 FR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of up or agents OR, alterna (2) the name of a sir registered attorney of 2 registered patent a	printing on the patent front page, list names of up to 3 registered patent attorneys ats OR, alternatively, name of a single firm (having as a member a red attorney or agent) and the names of up to tered patent attorneys or agents. If no name is no name will be printed.			
PLEASE NOTE: Unl recordation as set forth (A) NAME OF ASSIG		fied below, no assignee letion of this form is NO	data will appear on the T a substitute for filing a (B) RESIDENCE: (CI	patent. If an assign n assignment. TY and STATE OR (	COUNT	TRY)	ocument has been filed for up entity
a. The following fee(s) a  Issue Fee  Publication Fee (N		4lermitted)	o. Payment of Fee(s): (P  A check is enclosed Payment by credit of The Director is here	ease first reapply and a comment of the comment of	ny prev	viously paid issue fee suched.	shown above)
a. Applicant claims	<b>tus</b> (from status indicated s SMALL ENTITY statu	s. See 37 CFR 1.27.	☐ b. Applicant is no l	-			
OTE: The Issue Fee and terest as shown by the r	d Publication Fee (if requeecords of the United Sta	ured) will not be accepte tes Patent and Trademark	d from anyone other that Office.	the applicant; a reg	stered :	attorney or agent; or th	e assignee or other party in
Authorized Signature				Date			
Typed or printed name				Registration N	lo		
his collection of inform n application. Confident ubmitting the completed its form and/or suggesti ox 1450, Alexandria, V lexandria, Virginia 223	tiality is governed by 35 I application form to the ons for reducing this bur (irginia 22313-1450. DO	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to th NOT SEND FEES OR	on is required to obtain of 1.14. This collection is depending upon the ince Chief Information Off COMPLETED FORMS	r retain a benefit by the stimated to take 12 lividual case. Any concer, U.S. Patent and TO THIS ADDRESS	he publ minutes omment Traden S. SENI	lic which is to file (and s to complete, includin ts on the amount of tin nark Office, U.S. Depa D TO: Commissioner f	by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450,

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,770	07/08/2005	Luc Barre	BARRE1	3901
1444 7590 01/09/2009			EXAM	INER
BROWDY AND	NEIMARK, P.L.L.C	MAUST, TIMO	OTHY LEWIS	
624 NINTH STRE	ET, NW	ART UNIT	PAPER NUMBER	
SUITE 300 WASHINGTON, I	OC 20001-5303		3751 DATE MAILED: 01/09/200	9

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 557 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 557 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

12/29/08
Notice of Allowability

Application No.	Applicant(s)	
10/541,770	BARRE, LUC	
Examiner	Art Unit	
Timothy L. Maust	3751	

	Timothy L. Maust	3751				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Il claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included erewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS OTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative if the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.						
. 🔀 This communication is responsive to <u>papers filed on 10/14/08</u> .						
2. ☑ The allowed claim(s) is/are <u>9-14,16-19,22 and 23</u> .						
<ul> <li>3.</li></ul>	been received.  been received in Application cuments have been received of this communication to file IENT of this application.  itted. Note the attached EXA as reason(s) why the oath or set be submitted.  son's Patent Drawing Review as Amendment / Comment or 1.84(c)) should be written on the header according to 37 CF sit of BIOLOGICAL MATE	on No  If in this national stage application this national stage application are ply complying with the research of the declaration is deficient.  If (PTO-948) attached in the Office action of the drawings in the front (not the net of the	equirements  NOTICE OF			
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6.  ☐ Interview Sı Paper No./ 7.	formal Patent Application ummary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Al 	lowance			

## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In Claim 22 (Patent Claim 1),

Line 29: Delete "23),".

In Claim 23 (Patent Claim 12),

Line 30 (last line): Insert a period after "position".

The following is an examiner's statement of reasons for allowance: None of the prior art of record, alone or in combination, teaches an apparatus for manipulating heavier than air gas:

Regarding claim 22 (Patent Claim 1), comprising a negative pressure source and means of establishing a negative pressure in a peripheral area at the top of the chamber, which are supplied by the negative pressure source and which suck heavy gas escaping from the chamber through the top into a confined enclosure, wherein the means of establishing a negative pressure comprise a frame formed by a hollow profile which is supported by the chamber at the periphery of its upward opening and which, on three sides, overhangs part of the cavity of the chamber and therefore the cover in the

closed position, whilst, on a fourth side, it is subjacent to a cover in the closed position, and In that the said hollow profiled section is provided, facing the cover in the closed position, with suction openings, whilst it is in communication with the said source of negative pressure through an appropriate pipe.

Regarding claim 23 (Patent Claim 12), comprising a control apparatus movable between a first position and a second position to respectively close and open communication between the source and the cavity of the chamber, wherein the chamber comprises an upward opening and closure means movable between a closed position in which the upward opening is closed and an open position in which the opening is left open, and wherein when the control apparatus is moved to the first position closing said communication, the closure means can be moved to the open position, and when the control apparatus is moved to the second position opening said communication, the closure means when in the closed position cannot be moved to the open position.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy L. Maust whose telephone number is (571) 272-4891. The examiner can normally be reached on Mon. - Thur. 7:00-5:30pm.

Application/Control Number: 10/541,770 Page 4

Art Unit: 3751

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Greg Huson can be reached on (571) 272-4883. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Timothy L Maust/ Primary Examiner Art Unit 3751

12/29/08